

# INVESTIGATION OF RELATIONSHIP BETWEEN WELD COST AND TYPES OF ARC WELDING PROCESS

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"I declared that this thesis is the result of my own work except the ideas and summaries which I clarified their sources. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any degree".

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### ABSTRACT

This paper presents an investigation of relationship between weld cost and types of arc welding process. Weld deposition rate is the most useful information required in estimation of the welding cost and selection of welding condition. It is observed that the deposition rate varies very significantly with the changes in welding current and welding speed. Two approaches have to be carried out to understand this relationship. First, perform some welding samples and observed it. Second, analyze the relationship pattern and establish an empirical formula to predict the deposition rate for each welding speed can be used to calculate the cost easily. The time recording during the welding process are also taken to get the speed/min. As a result of knowing all the information, the cost of project can be known before the project is started. It helps to planning a project wisely without expenses much time and money.

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